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Bacteria	
ATCC Number: 35271	<input type="button" value="Order this item"/> Price: \$190.00
Organism:	<i>Xenorhabdus bovienii</i> (Akhurst) Akhurst and Boemare deposited as <i>Xenorhabdus nematophilus</i> subsp. <i>bovienii</i> Akhurst
Designations:	UQM 2210 [ACM 2210; T 228/1] Isolation: foregut of nematode, Neoaplectana bibionis, Tasmania
Depositors:	L.I. Sly History: ATCC<<--L.I. Sly <<--R.J. Akhurst T 228/1
Biosafety Level:	1 Shipped: freeze-dried
Growth Conditions:	ATCC medium: 1366 Peptone yeast extract medium Temperature: 26.0 C
Permits/Forms: In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.	
Related Products	
Type Strain:	type strain (type strain)
References:	<p>6898: Akhurst RJ. Taxonomic study of <i>Xenorhabdus</i>, a genus of bacteria symbiotically associated with insect pathogenic nematodes. Int. J. Syst. Bacteriol. 33: 38-45, 1983. —</p> <p>9086: Validation list no. 47. Int. J. Syst. Bacteriol. 43: 864-865, 1993. —</p> <p>10806: Akhurst RJ, Boemare NE. A numerical taxonomic study of the genus <i>Xenorhabdus</i> (Enterobacteriaceae) and proposed elevation of the subspecies of <i>X. nematophilus</i> to species. J. Gen. Microbiol. 134: 1835-1845, 1988. —</p> <p>PubMed: 3246587</p>

Q281-15
mic
all

WEST Search History

DATE: Wednesday, March 05, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L68	L61 and L67	0	L68
L67	((Xenorhabdus nematophilus) near5 toxin or protein) near5((Bacillus or Bacillus thuringiensis)near5 cell)	54	L67
L66	Xenorhabdus nematophilus near5 ((Bacillus or Bacillus thuringiensis)near5 cell)	0	L66
L65	Xenorhabdus near5 ((Bacillus or Bacillus thuringiensis)near5 cell)	0	L65
L64	L58 and L55	0	L64
L63	L60 and L55	0	L63
L62	L60 and L61	0	L62
L61	((insecticid\$5 or pesticid\$ or larvicid\$5) near5 protein) near5 (Xenorhabdus or Xenorhabdus bovienii or Xenorhabdus nematophilus or Xenorhabdus bedingii or Xenorhabdus poinarri)	3	L61
L60	L58 and L59	185	L60
L59	(insecticide or pesticide or larvicide)	42693	L59
L58	(Bacillus or Bacillus thuringiensis)near5 (toxin or protein or polypeptide)	989	L58
L57	L55 and (insecticide or pesticide or larvicide)	1	L57
L56	(coleoptera or lepidoptera or homoptera or Acanis) near5 (insecticide or pesticide or larvicide)	198	L56
L55	(Xenorhabdus near5 (toxin or protein or polypeptide))	8	L55

DB=USPT,PGPB; PLUR=YES; OP=ADJ

L54	L51	3	L54
L53	L50	3	L53
L52	L49	7	L52

DB=USPT; PLUR=YES; OP=ADJ

L51	L49 and L50	3	L51
L50	((insecticid\$5 or pesticid\$ or larvicid\$5) near5 protein) near5 (Xenorhabdus or Xenorhabdus bovienii or Xenorhabdus nematophilus or Xenorhabdus bedingii or Xenorhabdus poinarri)	3	L50
L49	L45 and L48	7	L49
L48	L42 and L47	7	L48
L47	L36 and L37	14503	L47
L46	L43 and L45	0	L46
L45	L42 and (insecticide or pesticide or larvicide)	7	L45
L44	L42 near5 (insecticide or pesticide or larvicide)	0	L44

L43	(coleoptera or lepidoptera or homoptera or Acanis) near5 (insecticide or pesticide or larvicide)	99	L43
L42	(Xenorhabdus near5 (toxin or protein or polypeptide))	8	L42
L41	(Xenorhabdus near5 (toxin or protein or polypeptide)) near5 (insecticide or pesticide or larvicide)	0	L41
L40	coleoptera or lepidoptera or homoptera or Acanis	3322	L40
L39	larvicide	521	L39
L38	insecticide or pesticide	31794	L38
L37	toxin or protein or polypeptide	138288	L37
L36	Bacillus or Bacillus thuringiensis	20466	L36
L35	Xenorhabdus	107	L35
L34	L14 and L29	0	L34
L33	L24 and L29	0	L33
L32	L22 and L29	0	L32
L31	L16 and L29	0	L31
L30	L15 and L29	0	L30
L29	L12 and L28	11	L29
L28	L11 and L27	122	L28
L27	L9 and L10	670	L27
L26	L13 and L24	0	L26
L25	L18 and L24	0	L25
L24	L7 and L23	1	L24
L23	L4 and L6	123	L23
L22	L8 and L19	1	L22
L21	L7 and L19	0	L21
L20	L6 and L19	0	L20
L19	L5 and L18	16	L19
L18	L4 and L1	100	L18
L17	L4 and L16	0	L17
L16	L5 and L15	1	L16
L15	L6 and L14	7	L15
L14	L7 and L13	13	L14
L13	L1 and L8	34	L13
L12	424/418	230	L12
L11	424/410	436	L11
L10	424/409	1249	L10
L9	424/405	2719	L9
L8	435/832	803	L8
L7	435/822	1503	L7
L6	435/252.5	588	L6

L5	435/71.1
L4	435/69.1
L3	3((435/69.1)!.CCLS.)
L2	3((435/252.31)!.CCLS.)
L1	((435/252.1)!.CCLS.)

1557	L5
12145	L4
0	L3
0	L2
1380	L1

END OF SEARCH HISTORY

Case Creation Option

Case "09856221" already exists. Please overwrite it or cancel the operation.

The Contents of Case "09856221"

Qnum	Query	DB Name	Thesaurus	Operator	Plural
Q1	((435/252.1)!.CCLS.)	USPT	None	ADJ	YES
Q2	3((435/252.31)!.CCLS.)	USPT	None	ADJ	YES
Q3	3((435/69.1)!.CCLS.)	USPT	None	ADJ	YES
Q4	435/69.1	USPT	None	ADJ	YES
Q5	435/71.1	USPT	None	ADJ	YES
Q6	435/252.5	USPT	None	ADJ	YES
Q7	435/822	USPT	None	ADJ	YES
Q8	435/832	USPT	None	ADJ	YES
Q9	424/405	USPT	None	ADJ	YES
Q10	424/409	USPT	None	ADJ	YES
Q11	424/410	USPT	None	ADJ	YES
Q12	424/418	USPT	None	ADJ	YES
Q13	Q1 and Q8	USPT	None	ADJ	YES
Q14	Q7 and Q13	USPT	None	ADJ	YES
Q15	Q6 and Q14	USPT	None	ADJ	YES
Q16	Q5 and Q15	USPT	None	ADJ	YES
Q17	Q4 and Q16	USPT	None	ADJ	YES
Q18	Q4 and Q1	USPT	None	ADJ	YES
Q19	Q5 and Q18	USPT	None	ADJ	YES
Q20	Q6 and Q19	USPT	None	ADJ	YES
Q21	Q7 and Q19	USPT	None	ADJ	YES
Q22	Q8 and Q19	USPT	None	ADJ	YES
Q23	Q4 and Q6	USPT	None	ADJ	YES
Q24	Q7 and Q23	USPT	None	ADJ	YES

Q25	Q18 and Q24	USPT	None	ADJ	YES
Q26	Q13 and Q24	USPT	None	ADJ	YES
Q27	Q9 and Q10	USPT	None	ADJ	YES
Q28	Q11 and Q27	USPT	None	ADJ	YES
Q29	Q12 and Q28	USPT	None	ADJ	YES
Q30	Q15 and Q29	USPT	None	ADJ	YES
Q31	Q16 and Q29	USPT	None	ADJ	YES
Q32	Q22 and Q29	USPT	None	ADJ	YES
Q33	Q24 and Q29	USPT	None	ADJ	YES
Q34	Q14 and Q29	USPT	None	ADJ	YES
Q35	Xenorhabdus	USPT	None	ADJ	YES
Q36	Bacillus or Bacillus thuringiensis	USPT	None	ADJ	YES
Q37	toxin or protein or polypeptide	USPT	None	ADJ	YES
Q38	insecticide or pesticide	USPT	None	ADJ	YES
Q39	larvicide	USPT	None	ADJ	YES
Q40	coleoptera or lepidoptera or homoptera or Acanis	USPT	None	ADJ	YES
Q41	(Xenorhabdus near5 (toxin or protein or polypeptide)) near5 (insecticide or pesticide or larvicide)	USPT	None	ADJ	YES
Q42	(Xenorhabdus near5 (toxin or protein or polypeptide))	USPT	None	ADJ	YES
Q43	(coleoptera or lepidoptera or homoptera or Acanis) near5 (insecticide or pesticide or larvicide)	USPT	None	ADJ	YES
Q44	Q42 near5 (insecticide or pesticide or larvicide)	USPT	None	ADJ	YES
Q45	Q42 and (insecticide or pesticide or larvicide)	USPT	None	ADJ	YES
Q46	Q43 and Q45	USPT	None	ADJ	YES
Q47	Q36 and Q37	USPT	None	ADJ	YES
Q48	Q42 and Q47	USPT	None	ADJ	YES
Q49	Q45 and Q48	USPT	None	ADJ	YES
Q50	((insecticide or pesticide or larvicide) near5 protein) near5 (Xenorhabdus or Xenorhabdus bovienii or Xenorhabdus	USPT	None	ADJ	YES

	nematophilus or <i>Xenorhabdus bedingii</i> or <i>Xenorhabdus poinarri</i>)				
Q51	Q49 and Q50	USPT	None	ADJ	YES
Q52	Q49	USPT,PGPB	None	ADJ	YES
Q53	Q50	USPT,PGPB	None	ADJ	YES
Q54	Q51	USPT,PGPB	None	ADJ	YES
Q55	(<i>Xenorhabdus</i> near5 (toxin or protein or polypeptide))	JPAB,EPAB,DWPI	None	ADJ	YES
Q56	(coleoptera or lepidoptera or homoptera or Acanis) near5 (insecticide or pesticide or larvicide)	JPAB,EPAB,DWPI	None	ADJ	YES
Q57	Q55 and (insecticide or pesticide or larvicide)	JPAB,EPAB,DWPI	None	ADJ	YES
Q58	(<i>Bacillus</i> or <i>Bacillus thuringiensis</i>)near5 (toxin or protein or polypeptide)	JPAB,EPAB,DWPI	None	ADJ	YES
Q59	(insecticide or pesticide or larvicide)	JPAB,EPAB,DWPI	None	ADJ	YES
Q60	Q58 and Q59	JPAB,EPAB,DWPI	None	ADJ	YES
Q61	((insecticid\$5 or pesticid\$ or larvicid\$5) near5 protein) near5 (<i>Xenorhabdus</i> or <i>Xenorhabdus bovienii</i> or <i>Xenorhabdus nematophilus</i> or <i>Xenorhabdus bedingii</i> or <i>Xenorhabdus poinarri</i>)	JPAB,EPAB,DWPI	None	ADJ	YES
Q62	Q60 and Q61	JPAB,EPAB,DWPI	None	ADJ	YES
Q63	Q60 and Q55	JPAB,EPAB,DWPI	None	ADJ	YES
Q64	Q58 and Q55	JPAB,EPAB,DWPI	None	ADJ	YES
Q65	<i>Xenorhabdus</i> near5 ((<i>Bacillus</i> or <i>Bacillus thuringiensis</i>)near5 cell)	JPAB,EPAB,DWPI	None	ADJ	YES
Q66	<i>Xenorhabdus nematophilus</i> near5 ((<i>Bacillus</i> or <i>Bacillus thuringiensis</i>)near5 cell)	JPAB,EPAB,DWPI	None	ADJ	YES
Q67	((<i>Xenorhabdus nematophilus</i>) near5 toxin or protein) near5((<i>Bacillus</i> or <i>Bacillus thuringiensis</i>)near5 cell)	JPAB,EPAB,DWPI	None	ADJ	YES
Q68	Q61 and Q67	JPAB,EPAB,DWPI	None	ADJ	YES

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: WO 9903328 A1

L61: Entry 1 of 3

File: EPAB

Jan 28, 1999

PUB-NO: WO009903328A1

DOCUMENT-IDENTIFIER: WO 9903328 A1

TITLE: TOXIN GENES FROM THE BACTERIA XENORHABDUS NEMATOPHILUS AND PHOTORHABDUS LUMINESCENS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw Desc	Image
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☐ 2. Document ID: WO 9850427 A1

L61: Entry 2 of 3

File: EPAB

Nov 12, 1998

PUB-NO: WO009850427A1

DOCUMENT-IDENTIFIER: WO 9850427 A1

TITLE: INSECTICIDAL PROTEIN TOXINS FROM XENORHABDUS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw Desc	Image
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☐ 3. Document ID: WO 9500647 A1 US 5972687 A AU 9469916 A EP 705340 A1 JP 09500264 W AU 675335 B

L61: Entry 3 of 3

File: DWPI

Jan 5, 1995

DERWENT-ACC-NO: 1995-052084

DERWENT-WEEK: 199952

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Polynucleotide(s) that encode insecticidal toxins from Xenorhabdus - useful for the control of insect pests in the agricultural, aquatic and forest industries.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw Desc	Image
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* * * * * welcom STN International * * * * *

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUAS,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:33:42 ON
05 MAR 2003

2 FILE BIOCOMMERCE
16 FILE BIOSIS
148 FILE BIOTECHABS
148 FILE BIOTECHDS
4 FILE BIOTECHNO
9 FILE CABA
39 FILE CAPLUS
7 FILE CEABA-VTB
1 FILE CEN
7 FILE CIN
22 FILE CROPU
339 FILE DGENE
3 FILE EMBASE
4 FILE ESBIODBASE
2 FILE FEDRIP
1 FILE GENBANK
34 FILE IFIPAT
10 FILE LIFESCI
5 FILE MEDLINE
1 FILE NTIS
3 FILE PASCAL
2 FILE PHIN
29 FILE PROMT
13 FILE SCISEARCH
30 FILE TOXCENTER
154 FILE USPATFULL
1 FILE USPAT2
25 FILE WPIDS
25 FILE WPINDEX

32 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L1 QUE (XENORHABDUS (L) (TOXIN OR PROTEIN OR POLYPEPTIDE))

46 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L2 QUE (COLEOPTERA OR LEPIDOPTERA OR HOMOPTERA OR ACANIS) (L) (INSECTICIDE OR
PESTICIDE OR LARVICIDE)

31 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L3 QUE (BACILLUS OR BACILLUS THURINGIENSIS) (L)((XENORHABDUS) (5N) TOXIN OR
PROTEIN) (5N) (PESTICID?))

11 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L4 QUE L1 AND L2

11 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L5 QUE L2 AND L4

11 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L6 QUE L4 AND L5

62 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L7 QUE (INSECTICIDE OR PESTICIDE OR LARVICIDE)

21 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L8 QUE ((INSECTICID? OR PESTICID? OR LARVICID?) (5N) PROTEIN) (L) (XENORHABDU
S OR XENORHABDUS BOVIENII OR XENORHABDUS NEMATOPHILLUS OR XENORHABDUS
BEDINGII OR XENORHABDUS POINARRI)

49 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L9 QUE ((XENORHABDUS NEMATOPHILUS) (5N) TOXIN OR PROTEIN) (L)((BACILLUS OR BA
CILLUS THURINGIENSIS) (5N) CELL)

15 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L10 QUE L7 AND L8

3 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L11 QUE L10 AND L9

3 FILES HAVE ONE OR MORE ANSWERS, 65 FILES SEARCHED IN STNINDEX
L12 QUE L6 AND L11

=> d rank

F1 1 BIOTECHABS
F2 1 BIOTECHDS
F3 1 USPATFULL

=> file f1-f3

FILE 'BIOTECHDS, USPATFULL' ENTERED AT 17:20:11 ON 05 MAR 2003

L13 139 L1
L14 3083 L2
L15 302 L3
L16 14 L4
L17 14 L5
L18 14 L6
L19 41244 L7
L20 22 L8
L21 3344 L9
L22 16 L10
L23 2 L11
L24 2 L12
L25 14 (L16 AND L17) AND L18
L26 3 (L13 AND L14) AND L15
L27 3 L25 AND L26
L28 3 L19 AND L27
L29 3 L20 AND L28
L30 2 L21 AND L29
L31 2 L30 AND L22
L32 2 L31 AND L23
L33 2 L32 AND L24
L34 3 DUP REM L29 (0 DUPLICATES REMOVED)
L35 2 DUP REM L33 (0 DUPLICATES REMOVED)
L36 1 L35 AND COLEOPTERA
L37 0 L36 AND HOMOPTERA

L35 ANSWER 1 OF 2 USPATFULL

AN 2002:346776 USPATFULL

TI Optimization of pest resistance genes using DNA shuffling

IN Stemmer, Willem P. C., Los Gatos, CA, United States

Castle, Linda A., Mountain View, CA, United States

Yamamoto, Takashi, Fremont, CA, United States

PA Maxygen, Inc., Redwood City, CA, United States (U.S. corporation)

PI US 6500617 B1 20021231

AI US 1999-296886 19990422 (9)

PRAI US 1998-94462P 19980728 (60)

US 1998-122054P 19980501 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Ponnaluri, Padmashri

LREP Kruse, Norman J., Holman, Christopher M.

CLMN Number of Claims: 26

ECL Exemplary Claim: 1

DRWN 5 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 4091

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides methods of obtaining pest resistance genes that are improved over naturally occurring genes for use in conferring upon plants resistance to pests. The methods involve the use of DNA shuffling of pest resistance genes to produce libraries of recombinant pest resistance genes, which are then screened to identify those that exhibit the improved property or properties of interest.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 2 OF 2 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI

AN 1998-06036 BIOTECHDS

TI Orally active insecticidal composition containing pesticidal material from ***Xenorhabdus*** species;
recombinant thermostable fusion ***protein*** preparation by
vector expression in host cell, used in ***insecticide***
composition or for transgenic plant construction

AU Jarrett P; Ellis D J; Morgan J A W

PA MAFF-U.K.

LO London, UK.

PI WO 9808388 5 Mar 1998

AI WO 1997-GB2284 27 Aug 1997

PRAI GB 1996-18083 29 Aug 1996

DT Patent

LA English
OS WPI: 1998-179074 [16]
AN 1998-06036 BIOTECHDS
AB The following are new: an ***insecticide*** composition for oral delivery to an insect containing pesticidal material ((I), or a fragment) from ***Xenorhabdus*** nematophilus ATCC 19061, NCIMB 40886 or NCIMB 40887; a ***pesticidal*** composition containing a ***protein*** encoded by DNA including part of a defined 38.2 kb DNA sequence; recombinant DNA encoding; expression vectors containing the DNA; host cells transformed with the vector; and a fusion ***protein*** expressed by the transformed ***cells***. Compositions may also contain ***Bacillus*** ***thuringiensis*** or delta-endotoxins with a carrier, edible to the pest. PA is thermostable at 55 deg, is resistant to proteolysis by trypsin (EC-3.4.21.4) and protease-K, is synergized by B. thuringiensis cells, is inactivated by sodium dodecylsulfate, acetone or by heating to 80 deg and is an extracellular ***protein***. The new compositions may be used to kill ***Lepidoptera*** and Diptera, e.g. Pieris brassicae, Pieris rapae, Plutella xylostella or Culex quinquefasciatus for crop (DNA may be used for transgenic plant construction) or animal protection and for vector control. (46pp)

L36 1 L35 AND COLEOPTERA
L37 0 L36 AND HOMOPTERA

L36 ANSWER 1 OF 1 USPATFULL
AN 2002:346776 USPATFULL
TI Optimization of pest resistance genes using DNA shuffling
IN Stemmer, Willem P. C., Los Gatos, CA, United States
Castle, Linda A., Mountain View, CA, United States
Yamamoto, Takashi, Fremont, CA, United States
PA Maxygen, Inc., Redwood City, CA, United States (U.S. corporation)
PI US 6500617 B1 20021231
AI US 1999-296886 19990422 (9)
PRAI US 1998-94462P 19980728 (60)
US 1998-122054P 19980501 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Ponnaluri, Padmashri
LREP Kruse, Norman J., Holman, Christopher M.
CLMN Number of Claims: 26
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 4091

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides methods of obtaining pest resistance genes that are improved over naturally occurring genes for use in conferring upon plants resistance to pests. The methods involve the use of DNA shuffling of pest resistance genes to produce libraries of recombinant pest resistance genes, which are then screened to identify those that exhibit the improved property or properties of interest.

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6528484 B1

L54: Entry 1 of 3

File: USPT

Mar 4, 2003

US-PAT-NO: 6528484

DOCUMENT-IDENTIFIER: US 6528484 B1

TITLE: Insecticidal protein toxins from Photorhabdus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 2. Document ID: US 6379946 B1

L54: Entry 2 of 3

File: USPT

Apr 30, 2002

US-PAT-NO: 6379946

DOCUMENT-IDENTIFIER: US 6379946 B1

TITLE: Insecticidal protein toxins from Xenorhabdus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 6048838 A

L54: Entry 3 of 3

File: USPT

Apr 11, 2000

US-PAT-NO: 6048838

DOCUMENT-IDENTIFIER: US 6048838 A

TITLE: Insecticidal protein toxins from xenorhabdus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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Term	Documents
51.USPT,PGPB.	3
(L51).USPT,PGPB.	3

Display Format:

-

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